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(54) METHOD FOR SEPARATING HYDROGEN FLUORIDE FROM ITS MIXTURE WITH 1,1,1-TRIFLUORO-2-CHLOROETHANE

(57)Abstract:

PURPOSE: To provide the method for separating hydrogen fluoride(HF) from its mixture with 1,1,1-trifluoro-2-chloroethane (F133a).

CONSTITUTION: A mixture of HF and F133a is subjected to a phase separation at $\leq 0^{\circ}\text{C}$ to obtain an organic under phase poor in HF and an upper layer rich in HF, the latter is directly recycled into a fluorination reactor or subjected to distillation, HF-F133a co-distillate mixture is distilled out from the head and returned to the phase separator and practically pure HF is recovered at the bottom. The under phase is distilled, HF-F133a co-distillate is distilled out from the head and returned to the phase separator and F133a is recovered at the bottom.

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